

Clean-water projects now under way

Here is a list of some of the major projects now under way to upgrade and replace aging facilities, expand existing ones and build new facilities to provide enough wastewater treatment capacity for the region's growing population.

Brightwater Treatment System: Construction is well under way on the \$1.8 billion Brightwater treatment system, the county's largest clean-water project in 40 years. In 2008, we'll spend about \$150 million to begin building facilities to process solids, control odors and power the plant. The North Mitigation Area, which includes 40 acres of open space at the north portion of the treatment plant site, is scheduled to open for public use in late 2008.

We've budgeted about \$200 million in 2008 for construction on the conveyance system, which includes a pump station in Bothell and a 13-mile-long wastewater pipeline that will run 40 to 450 feet below ground from the Brightwater Treatment Plant north of Woodinville to Point Wells north of Shoreline. All four tunnel boring machines will be running this year, and construction will start on the 600-foot-deep marine outfall this fall.

Carnation Wastewater Treatment Facility: In 2008, we will complete construction on the \$20 million wastewater treatment plant to replace aging septic systems in the City of Carnation. The project includes a 59-acre wetland enhancement project at Chinook Bend Natural Area that will use reclaimed water from the new Carnation plant to improve fish and wildlife habitat along the Snoqualmie River. The Chinook Bend Natural Area will serve as the primary discharge point for the plant.

Juanita Bay Pump Station Replacement Project: We'll complete construction on a new pump station project in north Kirkland that will double pumping capacity to 30.6 million gallons per day.

Hidden Lake Pump Station/Boeing Creek Trunk: We're replacing the existing 40-year-old Hidden Lake Pump Station with a new 6.8-million-gallon-a-day pump station and 12,000 feet of new sewer trunk line near Boeing Creek in Shoreline.

North Creek Interceptor: In 2008, King County and Alderwood Water and Wastewater District will move ahead on an \$18.9 million project to expand capacity in the North Creek Interceptor, which carries wastewater from a large portion of south Snohomish County to King County's wastewater treatment plants.

Combined Sewer Overflow Control: The county will continue its program to reduce combined sewer overflows, or CSOs, that occur in older parts of the system during heavy rains, degrading water quality and posing public health risks. The Puget Sound Beaches project will focus on CSO control near four popular Seattle recreation areas.



Construction begins on a treatment plant process tank building on the Brightwater site north of Woodinville.



A tunnel boring machine named Luminita was launched at the North Creek portal in Bothell in 2007 to begin digging one segment of the 13-mile Brightwater conveyance tunnel.



Mitigation at the Brightwater plant site includes replacing auto wrecking yards and industrial uses with attractively designed buildings, restored habitat and open space for public use.



Sediment Management Program: This program enables King County to proactively address historical sediment contamination near combined sewer overflow locations in Puget Sound. The county just completed a \$3.6 million project to remove about 14,000 cubic yards of contaminated sediment at the old Denny Way outfall near Myrtle Edwards Park.

Lower Duwamish Waterway Cleanup: We'll continue our commitment to cleaning up contaminated sediments, implementing source control actions, and complying with agreements with regulators and local governments. We'll also continue collaborating with the City of Seattle, the Port of Seattle and The Boeing Company on the Lower Duwamish Waterway Superfund site, which is part of a long-term cleanup effort.

53rd Avenue Pump Station: Construction will begin in 2008 at this Alki pump station to increase system reliability and help make the facility a better neighbor. The county will install new odor control equipment, upgrade the facility's electrical and mechanical systems and double the size of the below-ground pump station.

Ballard Siphon: To protect water quality in the Lake Washington Ship Canal, King County is investing \$13.3 million in the Ballard Siphon Project, which will rehabilitate a 70-year-old wooden sewer pipe that extends across the floor of Salmon Bay near the Hiram M. Chittenden Locks.

Kent/Auburn Conveyance System Improvement Project: This project will expand capacity in the rapidly growing south portion of King County's service area by adding approximately five miles of pipes in Kent, Auburn, Algona and Pacific.

Black Diamond Wastewater Storage Facility:

The county will invest in an underground wastewater storage facility in the City of Black Diamond that will extend the life of existing equipment and defer the need to build additional new conveyance pipes and pumping facilities for several years.

South Plant Odor Control Improvements: To be a good neighbor and protect air quality in the South Treatment Plant's host community, we'll invest \$7 million to upgrade odor control systems at the 42-year-old treatment plant.

Emergency Generator Program: Since 2002, King County has installed emergency backup power systems in nearly all of its offsite facilities to help prevent sewage backups during electrical outages. In 2008, the county will invest about \$3.7 million on projects to install new generators in the Barton and Murray pump stations in West Seattle, and on project plans to replace or rehabilitate aging generators at other facilities.

Being a good neighbor...

Protecting our regional quality of life isn't our only goal. We also take pride in building and operating facilities that are good neighbors in communities that host our facilities.

Odor control, landscaping, attractive architecture, construction mitigation and even public art help our facilities blend in and meet community standards.